

1 7. The microphone array apparatus as
 claimed in claim 6, wherein:
 a target sound source is a speaker; and
 the linear predictive analysis unit updates
 5 the filter coefficients of the linear predictive
 filters by using a signal which drives the speaker.

10 8. A microphone array apparatus comprising:
 a microphone array including microphones;
 a signal estimator which estimates positions
 of estimated microphones in accordance with intervals
 15 at which the microphones are arranged by using the
 output signals of the microphones and a velocity of
 sound and which outputs output signals of the
 estimated microphones together with the output signals
 of the microphones forming the microphone array; and
 20 a synchronous adder which pulls phases of
 the output signals of the microphones and the
 estimated microphones and then adds the output
 signals.

25 9. The microphone array apparatus as
 claimed in claim 8, further comprising a reference
 30 microphone located on an imaginary line connecting the
 microphones forming the microphone array and arranged
 at intervals at which the microphones forming the
 microphone array are arranged,
 wherein the signal estimator which corrects
 35 the estimated positions of the estimated microphones
 and the output signals thereof on the basis of the
 output signals of the microphones forming the

1 12. A microphone array apparatus
 comprising:
 a microphone array including microphones;
 a sound source position detector which
 5 detects a position of a sound source on the basis of
 output signals of the microphones;
 a camera generating an image of the sound
 source;
 a second detector which detects the position
 10 of the sound source on the basis of the image from the
 camera; and
 an integrate decision processing unit which
 outputs information indicating the position of the
 sound source on the basis of the information from the
 15 sound source position detector and the information
 from the second detector.

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